



Water-Data Report 2006

04282815 ENGLESBY BROOK AT BURLINGTON, VT

Richelieu Basin
Winooski Subbasin

LOCATION.--Lat 44°27'28", long 73°13'11" referenced to North American Datum of 1927, Chittenden County, Hydrologic Unit 02010003, on right bank, 125 ft downstream from Vermont Railroad culvert, 0.25 mi upstream from mouth, 0.35 mi downstream from Pine Street culvert, 0.8 mi northwest from junction of US 7 and Interstate 189, 1.3 mi south of City Hall in Burlington.

DRAINAGE AREA.--About 0.9 mi², Drainage area affected by stormwater diversions.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Discharge records: October 1999 to current year. Water-quality records: October 1999 to September 2001.

GAGE.--Concrete control with v-notch weir, water-stage recorder, and crest-stage gage. Elevation of gage is 105 ft above National Geodetic Vertical Datum of 1929, from topographic map.

COOPERATION.--Lake Champlain Basin Program and City of Burlington, VT.

REMARKS.--Records considered fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 206 ft³/s, Aug. 31, 2004, gage-height 5.18 ft; no flow for many days in water years 2000-2006.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 46 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 18	1450	Ice Jam	*3.71
May 18	2220	55	3.65
May 19	1820	*58	3.70

Minimum discharge, 0.00 ft³/s, on many days, gage height, 1.06 ft.

Water-Data Report 2006

04282815 ENGLESBY BROOK AT BURLINGTON, VT—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES
[*e*, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.01	0.25	1.4	0.29	0.29	e0.01	0.06	0.03	0.76	0.41	0.76	0.11
2	0.01	0.42	0.66	0.24	0.13	0.00	0.01	0.17	0.40	0.88	0.15	0.11
3	0.01	0.47	0.35	e0.19	1.3	0.00	0.02	0.25	2.0	0.51	0.04	0.72
4	0.01	0.69	0.24	e0.20	0.90	0.00	3.9	0.07	1.6	1.4	0.03	0.98
5	0.01	0.63	0.19	0.17	2.3	0.00	1.3	0.04	1.5	0.65	0.03	0.32
6	0.00	1.4	0.15	0.16	0.79	0.00	0.40	0.07	0.81	0.29	0.03	0.27
7	0.32	1.7	e0.10	e0.12	0.30	0.02	0.62	0.04	0.67	0.47	0.54	0.18
8	3.9	0.48	e0.08	0.07	0.09	0.00	0.55	0.32	1.1	0.17	0.47	0.13
9	0.67	0.68	0.09	0.09	0.03	0.01	0.15	0.29	0.56	0.12	0.08	0.54
10	0.33	1.3	0.10	0.11	0.02	0.23	0.06	0.24	2.8	0.05	0.09	0.23
11	0.19	0.47	0.09	0.60	0.01	0.05	0.04	0.20	3.0	0.07	0.08	0.08
12	0.10	0.24	0.09	2.4	0.01	0.02	0.04	0.65	1.6	0.99	0.05	0.06
13	0.16	0.10	0.07	1.1	0.01	1.1	0.04	2.3	0.95	1.3	0.04	0.38
14	1.6	0.04	0.05	2.3	0.01	0.74	0.04	1.4	0.61	0.45	0.02	0.61
15	3.5	1.8	0.05	e1.2	0.01	0.21	0.15	0.96	0.42	0.38	0.03	0.20
16	1.7	5.1	0.08	e0.40	0.06	0.03	0.05	0.69	0.38	0.26	0.02	0.13
17	1.7	3.1	0.09	e0.20	0.12	0.03	0.04	2.3	0.34	0.05	0.02	0.09
18	1.1	1.0	0.08	e22	0.02	e0.05	0.04	5.6	0.25	0.17	0.02	0.05
19	0.56	0.41	0.07	3.0	0.01	0.01	0.03	24	1.6	0.10	0.03	0.28
20	0.27	0.24	0.06	1.3	0.01	0.01	0.03	11	0.93	0.03	5.5	0.23
21	0.16	0.29	0.04	0.87	0.00	0.01	0.03	4.2	0.81	0.01	1.4	0.13
22	0.09	1.2	0.04	0.37	0.00	0.01	0.04	3.4	0.37	0.41	0.57	0.09
23	1.5	1.1	0.05	0.25	0.00	0.01	0.30	2.2	0.20	1.3	0.25	0.33
24	0.65	0.53	0.12	0.22	0.00	0.01	0.18	1.6	0.15	0.49	0.15	0.18
25	4.3	0.33	0.90	0.19	0.01	0.01	0.10	1.00	0.08	0.31	0.05	0.07
26	5.6	0.24	2.5	0.13	e0.01	0.01	0.04	0.77	4.2	0.16	0.02	0.09
27	2.4	0.22	0.98	e0.07	e0.01	0.01	0.04	0.62	2.7	0.09	e0.59	0.09
28	1.4	1.3	0.39	0.06	0.00	0.01	0.03	0.44	2.5	0.24	0.27	0.06
29	0.50	1.1	1.4	0.05	---	0.01	0.03	0.41	1.4	0.18	0.10	2.9
30	0.32	4.8	1.9	0.17	---	0.01	0.03	0.39	0.87	0.03	0.08	0.94
31	0.25	---	0.66	0.28	---	0.01	---	0.85	---	0.01	0.11	---
Total	33.32	31.63	13.07	38.80	6.45	2.63	8.39	66.50	35.56	11.98	11.62	10.58
Mean	1.07	1.05	0.42	1.25	0.23	0.08	0.28	2.15	1.19	0.39	0.37	0.35
Max	5.6	5.1	2.5	22	2.3	1.1	3.9	24	4.2	1.4	5.5	2.9
Min	0.00	0.04	0.04	0.05	0.00	0.00	0.01	0.03	0.08	0.01	0.02	0.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2006, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.41	0.60	0.64	0.42	0.48	0.60	1.30	1.01	0.65	0.43	0.58	0.31
Max	1.07	1.11	1.49	1.25	1.59	1.01	2.99	2.15	1.49	1.11	2.67	0.63
(WY)	(2006)	(2004)	(2004)	(2006)	(2000)	(2003)	(2001)	(2006)	(2002)	(2004)	(2004)	(2002)
Min	0.02	0.17	0.12	0.09	0.01	0.08	0.28	0.21	0.22	0.02	0.03	0.13
(WY)	(2002)	(2002)	(2002)	(2001)	(2004)	(2006)	(2006)	(2001)	(2001)	(2001)	(2002)	(2001)

04282815 ENGLESBY BROOK AT BURLINGTON, VT—Continued**SUMMARY STATISTICS**

	Calendar Year 2005	Water Year 2006	Water Years 2000 - 2006	
Annual total	226.38	270.53		
Annual mean	0.62	0.74	0.62	
Highest annual mean			0.90	2004
Lowest annual mean			0.40	2003
Highest daily mean	8.0	Jan 14	24	May 19
Lowest daily mean	0.00	Jul 16	^a 0.00	Oct 6
Annual seven-day minimum	0.00	Sep 9	0.00	Feb 28
Maximum peak flow			^b 58	May 19
Maximum peak stage			^c 3.71	Jan 18
10 percent exceeds	1.7		1.6	
50 percent exceeds	0.15		0.20	
90 percent exceeds	0.01		0.01	

^a Also occurred on many days as noted in the Extremes paragraph.

^b From rating curve extended above 10 ft³/s on basis of culvert computation at gage height 4.84 ft.

^c Ice affected.

